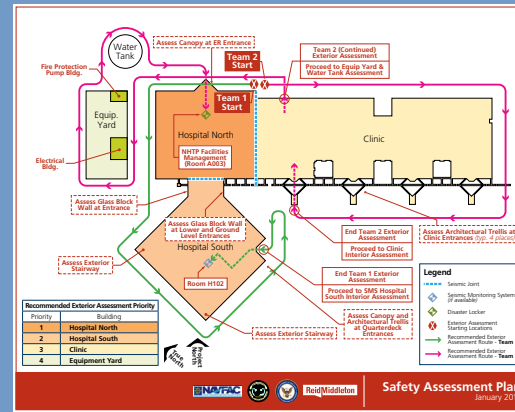


# REAP™ & SMS

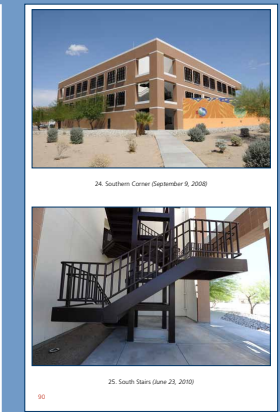
## Rapid Evaluation & Assessment Program & Seismic Monitoring System



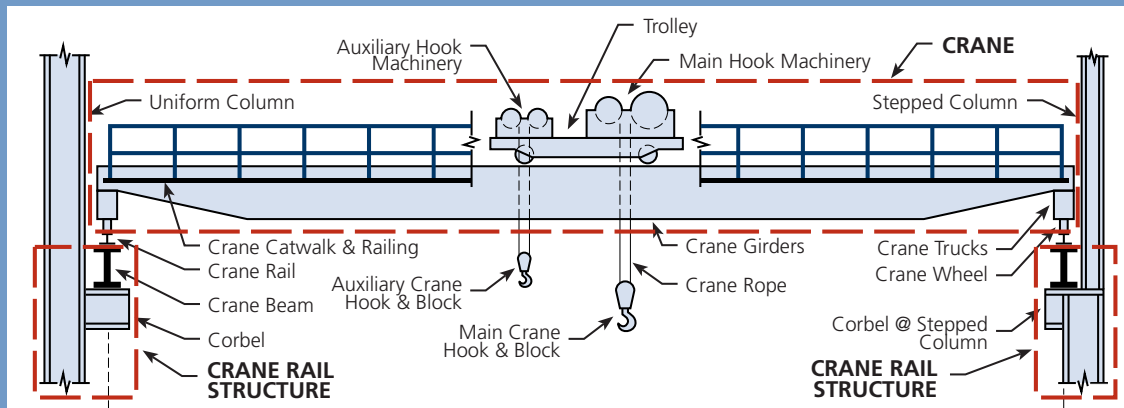
REAP includes building-specific field assessment manuals and record drawings.



Safety Assessment Plan to guide the assessment team and highlight important features.



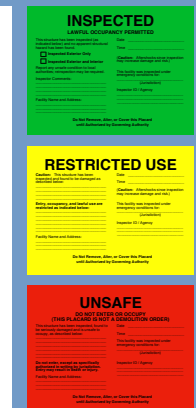
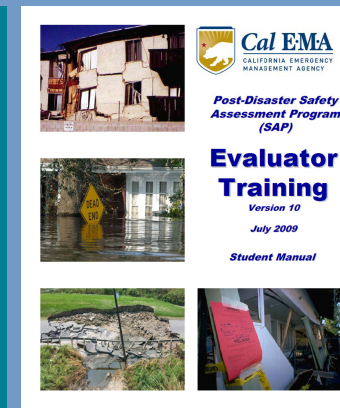
Inspection forms based on ATC-20/45 have been tailored to the specific construction and hazards in the building. Annotated photography documents pre-event conditions.



Field Manuals include specialized non-structural and equipment inspection checklists to review systems essential to continued facility operation.



Seismic Monitoring System (SMS) provides real-time evaluation of the building response based on pre-engineered performance limits.



REAP references U.S. protocol for post-earthquake safety evaluation of buildings

## What is REAP?

The Rapid Evaluation & Assessment Program (REAP) provides custom post-emergency inspection documents for your facility to determine if it is safe and operational. REAP reduces delays in evaluating essential facilities by empowering owners to quickly and knowledgeably evaluate their facilities immediately. REAP is enhanced with a Seismic Monitoring System (SMS)

that monitors facilities in real-time to improve post-earthquake condition assessments. The REAP/SMS methodology combines industry-standard ATC-20 inspection procedures, “pre-engineered” guidance using performance-based earthquake engineering, and computer-based monitoring and evaluations.

REAP is a trademark of Reid Middleton, Inc.

# If you manage a . . .

## Industrial/Commercial Facility

- Reduce costs from interrupting operations
- Maintain client services and support
- Safeguard critical information and supplies

## Medical Facility

- Maintain in-patient & medical staff safety
- Verify facility is safe to receive patients
- Provide emergency response services

## Government/Military Facility

- Maintain functioning government
- Protect essential assets and functions
- Ensure operational readiness and security

## Educational Facility

- Supplement general emergency response procedures
- Protect and reassure students and teachers
- Maintain safe shelter locations

## Penal/Corrections Facility

- Verify facility is safe and secure
- Make educated decisions to protect lives
- Reduce safety risks in a dangerous environment

## Multi-Residential Facility

- Provide educated information to tenants
- Improve confidence of when to evacuate
- Avoid panic and development of dangerous situations

## Performance regarding Naval Medical Center San Diego REAP

"The Rapid Evaluation and Assessment Program (REAP) is a customized post-earthquake response tool that utilizes seismic sensors deployed at critical locations in our buildings to help us quickly and accurately assess the safety of the facility after a major earthquake. The NMCS D Seismic Improvements Program...has significantly improved our seismic safety and preparedness and is a model program for other hospitals and critical facilities in high seismic areas."

**Napoleon Biagtan, PE** - Project Manager  
*Naval Medical Center San Diego*

## Where has REAP been implemented?

- Naval Hospital Bremerton (2002)
- Naval Medical Center San Diego (2008)
- Naval Pier & Support Facility in Western Washington (2009)
- Naval Hospital Twentynine Palms (2011)
- 8 Industrial Facilities for U.S. Government in Western Washington (2015)
- World Trade Center, Dubai (2015)
- Abu Dhabi Investment Authority Headquarters (2016)

## REAP Helps You:

- Improve Earthquake Response
- Manage Uncertainty
- Stay Operational
- Avoid Unnecessary Evacuations
- Minimize Costly Decisions
- Enhance Preparedness
- Assist in Other Disaster Response
- Protect Employee/Patient/Tenant Safety



## AVOIDING UNNECESSARY EVACUATION

Managers of essential facilities must decide whether to evacuate after an earthquake, which can have drastic consequences on lives, financial costs, interruptions to services, and maintaining security. During the 2001 Nisqually Earthquake, patients were evacuated from hospitals with cosmetic damage that were otherwise structurally safe. REAP empowers facility managers with better information and reduced uncertainty to decide whether evacuation is necessary.

## CONTACT

### Reid Middleton

728 134th Street SW  
Suite 200  
Everett, WA 98204  
425.741.3800

### David Swanson, P.E., S.E.

Director, Structural Engineering

### Erik Bishop, P.E.

Project Engineer  
Structural Engineering

REAP is a trademark of Reid Middleton, Inc.